

UNITED STATES DISTRICT COURT
DISTRICT OF MASSACHUSETTS

NEW ENGLAND CARPENTERS HEALTH
BENEFITS FUND, PIRELLI ARMSTRONG
RETIREE MEDICAL BENEFITS TRUST;
TEAMSTERS HEALTH & WELFARE FUND
OF PHILADELPHIA AND VICINITY; and
PHILADELPHIA FEDERATION OF
TEACHERS HEALTH AND WELFARE
FUND,

Plaintiffs,

v.

FIRST DATABANK, INC., a Missouri
corporation; and McKESSON
CORPORATION, a Delaware corporation,

Defendants.

CIVIL ACTION: 1:05-CV-11148-PBS

**DECLARATION OF RAYMOND S. HARMAN: IMPACT AND COST SAVINGS OF
THE FIRST DATABANK SETTLEMENT AGREEMENT**

Declaration of Raymond S. Hartman
Impact and Cost Savings of the First Databank Settlement Agreement

Executive Summary

I have been asked by Plaintiffs' Counsel to assess the economic impact of the First Databank Settlement Agreement. I find that the impact is substantial. In fact, I conclude that through the first year of implementation total cost savings to end-payers will likely be in excess of \$4 billion.

I. Qualifications

1. My name is Raymond S. Hartman. I have previously presented my qualifications to this Court in this matter, *New England Carpenters Health Benefits Fund, et al. v. First Databank, Inc., and McKesson Corporation*.¹ In performing this analysis, I have relied upon the materials listed in Attachment A.

II. Purpose and Overview

2. I have been asked by Counsel to assess the impact of the terms outlined in First DataBank's Settlement Agreement and Release² and to perform a preliminary calculation of the savings that will be realized as a result of the *FDB Settlement Agreement* if it is approved by the Court. I have been asked by Counsel to calculate these savings for a one-year period commencing January 1, 2007.³ The *FDB Settlement Agreement* outlines a process by which First DataBank will "adjust, i.e., change, the WAC to AWP Markup it utilizes for all pharmaceuticals listed on Exhibit A to 1.20."⁴ The majority of these drugs are currently listed with an AWP/WAC markup of 1.25.⁵

¹ Declaration of Raymond S. Hartman in Support of Plaintiffs' Motion for Class Certification. *New England Carpenters Health Benefits Fund, et al. v. First Databank, Inc., and McKesson Corporation*, United States District Court District of Massachusetts, C.A. No. 1:05-CV-11148-PBS, July 14, 2006 (hereafter "*Hartman FDB Declaration*").

² Settlement Agreement and Release. *New England Carpenters Health Benefits Fund, et al. v. First Databank, Inc., and McKesson Corporation*, United States District Court District of Massachusetts, C.A. No. 1:05-CV-11148-PBS, August 2006 (hereafter "*FDB Settlement Agreement*").

³ I have been advised by Counsel that January 1, 2007 serves as a reasonable approximation for the effective date for the *FDB Settlement Agreement* and for use in this analysis.

⁴ *FDB Settlement Agreement*, p. 19. Exhibit A of the Agreement was generated by First DataBank and contains 8,486 unique NDCs subject to this agreement.

⁵ I understand that Exhibit A contains a complete list of all current NDCs in the FDB database that are on a markup-basis and have a markup greater than 1.20. Based on an electronic Excel file produced by FDB ("Roll Back NDCs DRAFT 2006 09 07.xls") which contains the markup for each NDC, I have found that over 94% of the NDCs listed in Exhibit A are currently at a markup of at least 1.25.

3. The *FDB Settlement Agreement* originated from the allegations that Defendants McKesson Corporation (McKesson) and First DataBank (FDB) recognized and wrongfully exploited the relationship between the two most important list prices in pharmaceutical markets – the AWP and the WAC. As alleged in the *Complaint* and described in the *FDB Settlement Agreement*:

“Plaintiffs have alleged, *inter alia*, that Defendants, including First DataBank, wrongfully increased the so-called WAC to AWP markup factor applied to numerous prescription pharmaceuticals through a scheme begun in late 2001 and 2002, thereby causing members of the proposed Private Payor Class, whose payments for pharmaceuticals are tied to the published AWP, to make substantial excess payments for those pharmaceuticals.”⁶

The alleged 5% Scheme increased the WAC to AWP markup to 1.25 beginning in late 2001 and 2002.

III. AWP, WAC and Reimbursement Rates

4. The AWP and WAC list prices are the bases for most transaction prices in the pharmaceutical marketplace. The AWP has been and continues to be an important basis for drug reimbursement in this market.⁷ For branded self-administered drugs, which are the only drugs included in my cost savings calculations described in this Declaration,⁸ the AWP is the basis for reimbursement. By definition, the savings resulting from the *FDB Settlement Agreement* will therefore include those branded self-administered drugs for

⁶ *FDB Settlement Agreement*, pp. 1-2.

⁷ This Court has recognized this importance. In her Memorandum and Order re: Motion for Class Certification, *In re Pharmaceutical Industry Average Wholesale Price Litigation*, United States District Court District of Massachusetts, MDL No. 1456, Civil Action No. 01-12257-PBS, August 16, 2005, Judge Saris states (at p. 7). “Throughout the class period, from 1991 to the present, AWP has been the pricing benchmark for most pharmaceutical sales in the United States. (Hartman Decl. attach. D ¶¶ 29-30; Schondelmeyer ¶ 36.)” In forming her opinion, Judge Saris relied upon Professor Ernst Berndt, who noted in his February 9, 2005 Report: “AWP has served as a reference or focal point, an industry standard for baseline reimbursement, and as such a fictional benchmark price from which discounts are frequently specified, directly or indirectly” (¶ 16); and “Recall that pharmacies are typically reimbursed by health plans/insurers/PBMs for drugs they dispense on the basis of a relatively simple formula, such as AWP - X% plus dispensing fee plus (occasionally) administrative fees. ... [A]lmost all single source brand drugs are contractually reimbursed using AWP” (at ¶¶ 49 & 55). Ernst R. Berndt, Report of Independent Expert Professor Ernst R. Berndt to Judge Patti B. Saris, *In re Pharmaceutical Industry Average Wholesale Price Litigation*, United States District Court District of Massachusetts, MDL No. 1456, Civil Action No. 01-12257-PBS, February 9, 2005.

In a report prepared for the Centers for Medicare and Medicaid Services (CMS), Schondelmeyer and Wrobel describe the prevalence of WAC and AWP and the industry’s reliance on AWP for prescription drug reimbursement at retail (Schondelmeyer and Wrobel, “Medicaid and Medicare Drug Pricing: Strategy to Determine Market Prices,” Abt Associates, Inc., June 21, 2004, pp. 4, 15-16, 23).

⁸ Exhibit A includes additional product types, including generic drugs, physician-administered drugs, OTC drugs and other products that have not been included in my calculation of cost savings.

which the reimbursement rate was determined by reference to the AWP published by FDB.

5. For the branded self-administered drugs listed in Exhibit A to the *FDB Settlement Agreement* and included in my cost savings calculations, the AWP determines the amount paid to providers (retail pharmacies and other retailers), in most cases through contracts negotiated with intermediaries (PBMs). The related WAC determines the cost of the pharmaceutical goods sold by those providers. The AWP and WAC therefore are important market signals for innovator drug companies and important economic factors for providers and intermediaries.

IV. Industry Reliance upon FDB AWP Data

6. Given the recent trend to computerize the calculation and processing of drug claims, accessible and easily interactive AWP data bases are crucial to efficient claims administration.⁹ FDB has been recognized as offering the best data base with those characteristics, and reliance upon FDB AWP data became standard practice by the end of the 1990s. These facts have been recognized by the Federal Trade Commission (FTC) in their recent forced divestiture of MediSpan from FDB.¹⁰ This market reliance continued after the FTC forced divestiture of MediSpan in late 2001, due to a data sharing agreement that continued until 2004.¹¹

7. According to the terms described in detail in the *FDB Settlement Agreement* and summarized above, if approved by the Court, First DataBank has agreed to adjust the markup for all NDCs listed in Exhibit A downward to 1.20.¹² Everything else equal, this will have the effect of reducing not only the WAC to AWP markup, but also all drug reimbursement amounts based on AWP. Table 1 illustrates an example of this change in WAC to AWP markup and its impact on industry reimbursement rates. If the WAC is equal to \$100, the implied pre-settlement AWP would be \$125 (assuming the common 1.25 markup). If FDB adjusts the markup to 1.20 according to the *FDB Settlement Agreement*, the AWP will change to \$120. This decrease in AWP from \$125 to \$120 can also be described as a negative 4% change in the AWP $((120-125)/125)*100 = -4.0\%$.

8. Table 1 also illustrates the effect on reimbursement rates. Assume that there is a third-party insurer that reimburses for branded self-administered drugs at retail according

⁹ See *Hartman FDB Declaration*, footnote 19.

¹⁰ Complaint for Permanent Injunction and Other Equitable Relief Pursuant to Section 7A(g)(2) of the Clayton Act and Section 13(b) of the Federal Trade Commission Act, *Federal Trade Commission v. The Hearst Trust, The Hearst Corporation and First Databank, Inc.*, United States District Court for the District of Columbia, Civ. No. 1:01CV00734. The background for and discussion of this merger and the FTC's requirement for divestiture are discussed in the *Complaint* at ¶¶ 84-98. See also *Hartman FDB Declaration*, ¶ 17.

¹¹ To be specific, until October 2, 2004.

¹² The *FDB Settlement Agreement* states (at p. 19) that the change to a 1.20 markup will go into effect "no later than (1) sixty (60) days after the Effective Date of this Agreement, or (2) 270 days from the entry by the Settlement Court of a Preliminary Approval Order." The Effective Date is defined on pp. 15-16 of the *FDB Settlement Agreement*.

to contract terms set at AWP minus 15%. In the pre-settlement world, this insurer would reimburse 15% off of the AWP of \$125, or \$106.25. In the post-settlement world, this insurer reimburses at the same 15% off of AWP, but now at a lower AWP of \$120, which translates to a reimbursement of \$102.00. This decrease in reimbursement saves the insurer \$4.25, which equals a 4% savings in reimbursement.¹³

**Table 1: FDB Markup Change and Effect
on Reimbursement Rates**

Pre-Settlement	
FDB WAC	\$100.00
FDB AWP	\$125.00
Markup	1.25
Reimbursement at AWP - 15%	\$106.25
Post-Settlement	
FDB WAC	\$100.00
FDB AWP	\$120.00
Markup	1.20
Reimbursement at AWP - 15%	\$102.00
Cost Savings	
Percent Savings based on AWP	4.00%
Percent Savings based on Reimbursement Amount	4.00%

¹³ The savings would be 4% for any value of the discount (X%) off AWP used in the reimbursement formula.

V. The Formulaic Methodology for Calculating Cost Savings

9. Given the pervasive market reliance upon FDB price data noted by the FTC and continuing through 2004 due to the data sharing agreement mentioned above, it is reasonable to infer that the FDB AWP for those drugs (delineated by NDC) listed in Exhibit A will still be the basis for reimbursement rates paid for all or substantially all payments for branded self-administered drugs. However, absent more complete market share information, I make the conservative assumption that only two-thirds (66.67%) of total retail dollars paid for the drugs listed in Exhibit A will be reimbursed based on the AWPs listed in FDB and affected by the *FDB Settlement Agreement* over 2007.¹⁴

10. I have limited my analysis of cost savings to include only those branded self-administered drugs listed in Exhibit A to the *FDB Settlement Agreement*. To estimate the total dollars reimbursed for this set of drugs, I examined the “Top 200 brand-name drugs by retail dollars in 2005.”¹⁵ I found that the branded self-administered drugs listed in Exhibit A account for 184 of the Top 200 brand-name drugs. Total retail dollar sales in 2005 for these 184 drugs totaled approximately \$116 billion or 96.6% of the total Top 200 brand-name drug sales. In addition to the Top 200 drugs, there was close to \$24 billion in retail spending on all other brand-name drugs. I have assumed that the

¹⁴ I believe this adjustment conservative for the following reasons. The only real competitor to FDB with an equivalent interactive database product is MediSpan. As noted above, FDB and MediSpan have had equivalent AWPs, WACs and mark-ups, based upon the data-sharing agreement in place through October 2, 2004 (see footnote 11 above). While I have not conducted supporting analysis, I believe that the AWPs and WACs of these two data providers have tracked closely through the present and that few entities have switched entirely to MediSpan, for the reasons of institutional inertia discussed in footnote 19 below.

In light of the announced settlement and the size of the savings implied to payers, it is possible that retailers would attempt to pressure PBMs (which negotiate the contract terms between TPPs and retailers, including *discounts off AWPs* and the *source of the AWP*) to shift from FDB to MediSpan for the source of AWP, since MediSpan is not subject to the settlement agreement. It is also possible that retailers would attempt to renegotiate the percentage discount off FDB's AWP, to defeat the reduction in the allowed amount to be reimbursed. While possible, *given the public nature* of both the FTC 2001 divestiture of MediSpan from FDB and of this settlement, and given the very recent increased attentiveness of CMS with passage of the Medicare Prescription Drug Improvement and Modernization Act, it is unlikely that such strategic shifts to MediSpan and such attempts to renegotiate reimbursement formulae *would go unnoticed and unchallenged* by TPPs and by Medicaid, certainly over the next calendar year.

Put differently, my reduction of scripts subject to savings allows for *one third* of the market to shift (or to have already shifted) to MediSpan and/or renegotiate contracts. I believe this to be a larger shift than will actually occur. Since TPP negotiations will predominantly determine the AWPs used by PBMs and retailers (i.e., retaining FDB list prices), those same AWPs will determine U&C basis for cash payers. If retailers ignore the lower AWPs imposed by the settlement and merely keep U&C at the pre-settlement level (related to pre-settlement AWPs) for all cash transactions, then no cash payers will benefit from the settlement. Since cash payers account for 9% of all payers (see Table 2 of this Declaration), then my reduction of 33.3% is much larger than implied by an exclusion of all cash payers. Exclusion of 33.3% allows another 24.3% (1/4) to switch or have switched to MediSpan for whatever reason.

¹⁵ *Drug Topics*, Top 200 Brand-Name Drugs by Retail Dollars in 2005. Sales data for the top 200 drugs is based on the Verispan's Vector One®: National Retail Survey.

remaining drugs in Exhibit A account for the same percentage of these dollars as do the 184 drugs of the Top 200.¹⁶

11. I thereby calculate an estimated total of \$138 billion dollars in retail spending on the drugs listed in Exhibit A. In order to estimate total retail spending on branded self-administered drugs for 2007, I have assumed an annual growth rate of 7% for such spending.¹⁷ Therefore, total retail spending on the drugs listed in Exhibit A conservatively will equal approximately \$158 billion in 2007. Assuming that two-thirds of these dollars spent were reimbursed with reference to the FDB AWP, total retail dollars subject to the markup adjustment will be \$106 billion.

12. As demonstrated in Table 1 above, the savings for all payers that pay or reimburse based on AWP will equal 4% of their spending. For example, the third-party insurer who reimbursed \$106.25 in the pre-settlement world will save \$4.25 (or 4% of \$106.25) as a result of the adjustment to AWP.^{18,19} I have allocated total retail spending to three different end-payer groups, including: Private Third-Party Payers, Medicaid and Uninsured Cash Payers.²⁰ Each of these payers reimburses based on contracts, statutes or

¹⁶ A complete list of assumptions made in the analysis can be found in Attachment B to this Declaration.

¹⁷ This is a conservative estimate given the historical, recent and forecasted growth trends in the pharmaceutical industry. An estimate appearing in the journal *Health Affairs* forecasts growth to be closer to 11% over the next few years (S. Heffler, *et al.*, "U.S. Health Spending Projections for 2004-2014," *Health Affairs – Web Exclusive*, February 23, 2005, pp. W5-77-79 and Exhibit 2).

¹⁸ This hypothetical is consistent with calculated cost savings per script. Specifically, I estimate total cost savings in Table 2 (\$4 billion) for 2/3 of all scripts filled (roughly 1.0 billion). This implies an average savings of approximately \$4.00/script or 4% of an average price of \$100.00 (total brand units were about 1.5 billion in 2005 and the average brand price per script was \$95.30; see *Drug Topics*, Top 200 Brand-Name Drugs by Units and Dollars, 2005).

¹⁹ Inherent in this analysis is the assumption that the reimbursement formulae negotiated market-wide (including those for retail pharmacies, private TPPs and other market participants) will not adjust in the short-run (over 2007) to defeat the impact of the *FDB Settlement Agreement* and FDB's reduction of the WAC to AWP markup. This assumption is reasonable for the following reasons, some of which have been introduced in footnote 14 above. First, the relationships governing reimbursement practices and procedures, market-wide, are complex and slow to change and will be subject to very public scrutiny after this settlement. Second, established reimbursement contracts and statutes have fixed durations. Third, the costs associated with implementing changes to the overall reimbursement structure and individual reimbursement algorithms used by market participants are substantial. Fourth, strategies developed by individual market participants to reverse the effects of the settlement will be developed individually and over time, as different market participants assess their strategic alternatives, observe the strategies of other market participants and ultimately implement their consequential strategies. As a result, it is fair to assume that inertia in the retail market and among market participants will allow for the substantial cost savings calculated in this Declaration. It is highly unlikely that the interested market participants will be able to reverse and defeat the effects of the settlement within one year, with possible exceptions discussed in footnote 14. Since I am only estimating the benefits of a settlement, the effects of which may have impacts lasting for many years, *for a single year under conservative assumptions*, I believe my calculation of savings to be conservative.

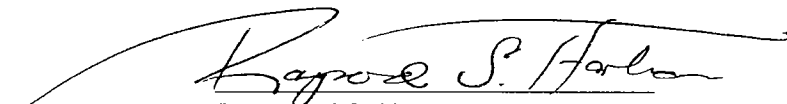
²⁰ Novartis, Pharmacy Benefit Report: Facts & Figures, 2004 edition, Figure 1: Retail Market Share by Payer Type: 2003, p. 23. The introduction of Medicare Part D prescription drug coverage on January 1, 2006 has increased spending by Medicare in the form of premiums paid to private TPPs. However, I understand that Medicare Part D does not directly reimburse for prescription drugs at retail (i.e., does not process claims for prescription drugs covered under Part D). Therefore, all drug purchases covered by Medicare Part D will be reflected in the Private TPP category. Medicare does however share some

retail practices in relation to AWP, and will therefore realize the 4% savings when FDB adjusts the AWP/WAC markup according to the *FDB Settlement Agreement*. The estimated savings for each of these end-payer groups is calculated in Table 2 for 2007.²¹

Table 2
Calculation of Cost Savings by Payer Type (2007\$)

Payer Type	Payer %	Retail Spending	Savings %	Savings Amount
Private TPPs ²²	78.8%	\$83,236,653,205	4.0%	\$3,329,466,128
Medicaid	11.9%	\$12,570,002,197	4.0%	\$502,800,088
Cash/Uninsured	9.3%	\$9,823,615,163	4.0%	\$392,944,607
Totals		\$105,630,270,565		\$4,225,210,823

I declare that this declaration is true and correct.


Raymond S. Hartman
Executed on September 27, 2006

financial risk related to drug spending with the private TPPs so that reductions in spending by private Part D coverage providers may also yield some savings for Medicare. For example, should an individual participating in one of the Medicare designated Part D insurance plans reach a catastrophic level of drug use (i.e., where their out of pocket expenditures exceed \$3,600), Medicare would then cover 80% of any drug spending above \$3,600. In this case Medicare could benefit from decreased reimbursement rates. I understand that relatively few individuals are expected to exceed \$3,600 in out-of-pocket pharmaceutical expenditures.

See Heffler, *et al.*, *op. cit.*, for an estimate of the Medicare portion of prescription drug retail spending (pp. W5-77-79 and Exhibit 5).

²¹ Note that if cash payers are foreclosed from benefiting from the savings induced by the settlement (see footnote 14 above), the total benefits in Table 2 would remain the same but would accrue only to the TPPs and Medicaid.

²² As described in Attachment B (see note 12 of the Attachment), TPP rebates may be affected by the FDB Settlement Agreement. To the extent that managed care rebates are calculated as a percentage of AWP and passed on from PBMs to TPPs, total savings for the TPP payer category would decrease by the loss of rebate dollars. If we make the conservative assumption that *all* managed care rebates are calculated as 5% of AWP and that *all* rebates paid to PBMs are passed through to TPPs, total TPP saving would decrease by approximately \$166 million, resulting in total cost savings of \$4,058,737,516.

Attachment A: Materials Relied Upon

Legal Documents and Materials

Complaint for Permanent Injunction and Other Equitable Relief Pursuant to Section 7A(g)(2) of the Clayton Act and Section 13(b) of the Federal Trade Commission Act, *Federal Trade Commission v. The Hearst Trust, The Hearst Corporation and First Databank, Inc.*, United States District Court for the District of Columbia, Civ. No. 1:01CV00734.

Declaration of Raymond S. Hartman in Support of Plaintiffs' Motion for Class Certification, *New England Carpenters Health Benefits Fund, et al. v. First Databank, Inc., and McKesson Corporation*, United States District Court District of Massachusetts, C.A. No. 1:05-CV-11148-PBS, July 14, 2006.

Ernst R. Berndt, Report of Independent Expert Professor Ernst R. Berndt to Judge Patti B. Saris, *In re Pharmaceutical Industry Average Wholesale Price Litigation*, United States District Court District of Massachusetts, MDL No. 1456, Civil Action No. 01-12257-PBS, February 9, 2005.

FDB Excel file: "Roll Back NDCs DRAFT 2006 09 07.xls".

Memorandum and Order re: Motion for Class Certification, *In re Pharmaceutical Industry Average Wholesale Price Litigation*, United States District Court District of Massachusetts, MDL No. 1456, Civil Action No. 01-12257-PBS, August 16, 2005,

Settlement Agreement and Release, *New England Carpenters Health Benefits Fund, et al. v. First Databank, Inc., and McKesson Corporation*, United States District Court District of Massachusetts, C.A. No. 1:05-CV-11148-PBS, August 2006.

Other Documents

Drug Topics, "Top 200 Brand-Name Drugs by Retail Dollars in 2005," (<http://www.drugtopics.com/drugtopics/data/articlestandard/drugtopics/082006/309440/article.pdf>).

Drug Topics, "Top 200 Brand-Name Drugs by Retail Units in 2005," (<http://www.drugtopics.com/drugtopics/data/articlestandard/drugtopics/102006/311294/article.pdf>).

Heffler, Stephen, Sheila Smith, Sean Keehan, Christine Borger, M. Kent Clemens, and Christopher Truffer, "U.S. Health Spending Projections for 2004-2014," *Health Affairs – Web Exclusive*, February 23, 2005.

Novartis, *Pharmacy Benefit Report: Facts & Figures*, New Jersey: 2004 edition.

Schondelmeyer, Stephen W. and Marian V. Wrobel, "Medicaid and Medicare Drug Pricing: Strategy to Determine Market Prices," Abt Associates, Inc., June 21, 2004.

Attachment B: Notes and Assumptions

1. Exhibit A includes 8,486 NDCs (approximately 2,000 drugs).
2. All NDCs listed in Exhibit A are assumed to be at a 1.25 markup. Based on my review of the electronic file generated by FDB, it appears that over 94% of the NDCs listed in Exhibit A are currently set at a markup of *at least 1.25*. The remaining NDCs have a markup between 1.20 and 1.25. It is assumed that the markup factor utilized by FDB for each drug listed in Exhibit A is consistent across all NDCs for that drug, and therefore all retail dollars associated with that drug are included in my cost savings analysis.
3. I assume that FDB will decrease the WAC to AWP markup from 1.25 to 1.20 for all 8,486 NDCs listed in Exhibit A on the date defined by the *FDB Settlement Agreement* (see footnote 12 above). I have been directed to assume that January 1, 2007 is a reasonable approximation for this date (see footnote 3 above).
4. Generic drugs and non-prescription retail drugs (e.g., physician-administered drugs and OTC products) listed in Exhibit A have not been included in this analysis.
5. Total brand-name retail dollars in 2005 totaled \$143 billion.
6. A subset of 184 of the approximately 2,000 drugs listed in Exhibit A accounts for 96.6% of the Top 200 brand-name retail dollars (\$115.6 billion). I assume that the remaining bulk of drugs in Exhibit A (roughly 1,800 drugs) account for 96.6% of all other brand-name retail dollars (\$22.8 billion). Therefore, total brand-name retail dollars for all drugs listed in Exhibit A equal \$138 billion in 2005.
7. Assuming that drug spending will increase at an estimated annual rate of 7% from 2005 to 2007, total brand-name retail dollars for the drugs listed in Exhibit A will reach \$158 billion in 2007.
8. It is assumed that two-thirds of all retail payments and reimbursements are based on FDB AWP and subject to the *FDB Settlement Agreement*. Therefore, total brand-name retail dollars subject to the *FDB Settlement Agreement* will be \$106 billion in 2007.
9. Total 2007 brand-name retail dollars subject to the *FDB Settlement Agreement* are broken out by payer type based on percentages found in Novartis, *Pharmacy Benefit Report: Facts & Figures*, 2004 edition.
10. It is assumed that when FDB decreases the WAC to AWP markup from 1.25 to 1.20 according to the *FDB Settlement Agreement*, all payers realize a 4.0% savings.
11. This analysis assumes that all current retail pricing formulae and reimbursement contracts remain constant for the year 2007 following FDB's adjustment to the WAC to AWP markup, subject to the caveats put forward in footnotes 14 and 19. It also assumes that the pricing strategies of innovator drug companies determining ASP and WAC do not change in 2007, while making no assumption about possible changes thereafter.

12. Rebates to managed care are typically paid through PBMs in the form of access, administrative, performance and/or market share rebates. The rebate amounts are often determined as a percentage of manufacturers' list prices, either WAC or AWP. If rebates are calculated as a percentage of WAC, ***there will be no change*** in rebates, given the preceding assumption. If calculated off AWP, the savings calculation must be adjusted as follows. If the rebates are X% of AWP (where, for example, we let X% = 5%) and the savings implied by the settlement are 4% of AWP, then we must reduce the calculation of the savings induced by the *FDB Settlement Agreement* by 0.2% ($0.04 * 0.05$); the savings are therefore 3.8% ($0.04 - 0.04 * 0.05$) of total spending. The same adjustment would be required if rebates are calculated as a percentage of spending. These calculations conservatively assume that ***all*** managed care rebates are calculated as 5% of AWP and that ***all*** rebates paid to PBMs are passed through to TPPs.